## Clean Copy of Claim Amendments in Response to the Office Action of September 25, 2006 Williams et al.; Carbon Dioxide-Assisted Methods of Providing Biocompatible Intraluminal Prostheses

27. (Currently amended) A method of producing a biocompatible stent for *in vivo* use, comprising:

providing a stent having a portion thereof formed from polymeric material selected from the group consisting of surgical gut, silk, cotton, liposomes, poly(lactic acid), poly(L-lactic acid), poly(D,L-lactic acid), poly(glycolic acid), poly(D-lactic-coglycolic acid), poly(L-lactic-co-glycolic acid), poly(C-caprolactone), poly(valerolactone), poly(hydroxy butyrate), poly(hydroxalerate), polydioxanone, poly(propylene fumarate), and copolymers thereof, and collagen and chitosan, wherein the polymeric material contains one or more toxic materials;

immersing the polymeric material in a densified carbon dioxide composition such that the toxic materials are absorbed by the densified carbon dioxide composition; and

removing the densified carbon dioxide composition containing the toxic materials from the polymeric material, such that the stent is suitable for *in vivo* use.

- 28. (Previously presented) The method of Claim 27, wherein the one or more toxic materials are selected from the group consisting of organic solvents (polar or non-polar), unpolymerized monomers, polymerization catalysts, oligomers, and polymerization initiators.
- 29. (Previously presented) The method of Claim 27, wherein the densified carbon dioxide composition is a liquid composition, and wherein the immersing and removing steps are carried out in an enclosed chamber.
- 30. (Previously presented) The method of Claim 27, wherein the immersing step comprises adjusting the pressure and/or temperature of the densified

carbon dioxide composition to selectively absorb toxic materials from the polymeric material.

31. (Previously presented) The method of Claim 27, further comprising:

lowering the density of the removed densified carbon dioxide composition such that the toxic materials entrained therein become separated therefrom; and removing the separated toxic materials.

- 32. (Previously presented) The method of Claim 31, wherein the step of lowering the density comprises reducing pressure and/or increasing temperature of the densified carbon dioxide composition.
- 33. (Previously presented) The method of Claim 27, wherein carbon dioxide in the densified carbon dioxide composition is present in a supercritical state.
- 34. (Previously presented) The method of Claim 27, wherein the carbon dioxide contains one or more of a co-solvent, a surfactant, and a co-surfactant.
  - 35-37. (Canceled)
- 38. (Currently amended) The method of Claim 27, wherein the polymeric material is a coating on one or more portions of the stent.
- 39. (Currently amended) A method of producing a biocompatible stent for *in vivo* use, comprising:

providing a stent having a portion thereof formed from polymeric material selected from the group consisting of polylactic acid-polyethylene glycol block copolymer, poly(ethyleneoxide)-poly(butylenetetraphthalate), poly(lactic acid-co-lysine), a poly(L-lactic acid) copolymer and a poly( $\varepsilon$ -caprolactone) copolymer, wherein the polymeric material contains one or more toxic materials;

immersing the polymeric material in a densified carbon dioxide composition such that the toxic materials are absorbed by the densified carbon dioxide composition, wherein pressure and/or temperature of the densified carbon dioxide composition is adjusted to selectively absorb toxic materials from the polymeric material; removing the densified carbon dioxide composition containing the toxic

materials from the polymeric material;

lowering the density of the removed densified carbon dioxide composition such that the toxic materials entrained therein become separated therefrom; and removing the separated toxic materials, such that the stent is suitable for *in vivo* use.

40. (Currently amended) A method of producing a biocompatible stent for *in vivo* use, comprising:

providing a stent having a portion thereof formed from polymeric material selected from the group consisting of: poly(lactic acid), poly(L-lactic acid), poly(D,L-lactic acid), and a copolymer of poly(lactic acid), poly(L-lactic acid), and/or poly(D,L-lactic acid), wherein the polymeric material contains one or more toxic materials;

immersing the polymeric material in a densified carbon dioxide composition such that the toxic materials are absorbed by the densified carbon dioxide composition, wherein pressure and/or temperature of the densified carbon dioxide composition is adjusted to selectively absorb toxic materials from the polymeric material;

removing the densified carbon dioxide composition containing the toxic materials from the polymeric material;

lowering the density of the removed densified carbon dioxide composition such that the toxic materials entrained therein become separated therefrom; and removing the separated toxic materials, such that the stent is suitable for *in vivo* use.

41. (Previously presented) The method of Claim 40, wherein the one or more toxic materials are selected from the group consisting of organic solvents (polar

or non-polar), unpolymerized monomers, polymerization catalysts, oligomers, and polymerization initiators.

- 42. (Previously presented) The method of Claim 40, wherein the densified carbon dioxide composition is a liquid composition, and wherein the immersing and removing steps are carried out in an enclosed chamber.
- 43. (Previously presented) The method of Claim 40, wherein the step of lowering the density comprises reducing pressure and/or increasing temperature of the densified carbon dioxide composition.
- 44. (Previously presented) The method of Claim 40, wherein carbon dioxide in the densified carbon dioxide composition is present in a supercritical state.

## 45-47. (Cancelled).

- 48. (Previously presented) The method of Claim 40, wherein the carbon dioxide contains one or more of a co-solvent, a surfactant, and a co-surfactant.
- 49. (Currently amended) The method of Claim 40, wherein the polymeric material is a coating on one or more portions of the stent.
- 50. (New) A method of producing a biocompatible stent for *in vivo* use, comprising:

providing a stent having a portion thereof formed from polymeric material selected from the group consisting of: poly(glycolic acid), poly(D-lactic-co-glycolic acid), poly(L-lactic-co-glycolic acid), poly(L-lactic-co-glycolic acid), and a copolymer of poly(glycolic acid), poly(D-lactic-co-glycolic acid), poly(L-lactic-co-glycolic acid), or poly (D,L-lactic-co-glycolic acid), wherein the polymeric material contains one or more toxic materials;

immersing the polymeric material in a densified carbon dioxide composition such that the toxic materials are absorbed by the densified carbon dioxide composition, wherein pressure and/or temperature of the densified carbon dioxide composition is adjusted to selectively absorb toxic materials from the polymeric material; removing the densified carbon dioxide composition containing the toxic materials from the polymeric material;

lowering the density of the removed densified carbon dioxide composition such that the toxic materials entrained therein become separated therefrom; and removing the separated toxic materials, such that the stent is suitable for *in vivo* use.

- 51. (New) The method of Claim 50, wherein the one or more toxic materials are selected from the group consisting of organic solvents (polar or non-polar), unpolymerized monomers, polymerization catalysts, oligomers, and polymerization initiators.
- 52. (New) The method of Claim 50, wherein the densified carbon dioxide composition is a liquid composition, and wherein the immersing and removing steps are carried out in an enclosed chamber.
- 53. (New) The method of Claim 50, wherein the step of lowering the density comprises reducing pressure and/or increasing temperature of the densified carbon dioxide composition.
- 54. (New) The method of Claim 50, wherein carbon dioxide in the densified carbon dioxide composition is present in a supercritical state.
- 55. (New) The method of Claim 50, wherein the carbon dioxide contains one or more of a co-solvent, a surfactant, and a co-surfactant.

56. (New) The method of Claim 50, wherein the polymeric material is a coating on one or more portions of the stent.